

Amdt 8/14/06

Application No. 10/628,415

Docket No.: 2121-0176P

AMENDMENTS TO THE CLAIMS

1. (Currently Amended): A universal polypeptidic carrier for targeting directly or indirectly a molecule to Gb3 receptor expressing cells and having the following formula STxB-Z(n)-Cys, wherein :

STxB is the Shiga Toxin B subunit or a functional equivalent thereof,

Z is an amino-acid ~~devoided~~ devoid of ~~sulfhydryl~~ a sulfhydryl group, n being 0, 1 or a polypeptide,

Cys is the amino-acid Cysteine.

2. (Previously Presented): The universal carrier according to claim 1 wherein n is 0.

3. (Previously Presented): The universal carrier according to claim 1 or 2 wherein the molecule is selected from the group consisting of proteins, peptides, oligopeptides, glycoproteins, glycopeptides, nucleic acids, polynucleotides, and a combination thereof.

4. (Previously Presented)The universal carrier according to claim 1 or 2 wherein the molecule is covalently linked to the -S residue of the universal carrier by a -S-S-, a -S-CO-, a -S-CH₂-, or a -S-NH- linkage.

5. (Currently Amended): The universal carrier according to claim 4 wherein the molecule is an antigen to be targeted to antigen ~~presentating~~ presenting cells.

6. (Currently Amended): The universal carrier according to claim 1 or 2 wherein the universal carrier is covalently linked to an oligopeptide or a polypeptide by a -S-S-, or a -S-CO-, or a -S-CH₂- or a -S-NH linkage, and the molecule to be targeted is operably linked to the said oligopeptide or polypeptide.

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7. (Previously Presented): The universal carrier according to claim 6 wherein the universal carrier is covalently linked to a poly-lysine oligopeptide and the molecule to be targeted is nucleic acid or an oligo-nucleotide operably linked to the said poly-lysine moiety.

8. (Currently Amended): The universal carrier according to claim 4 wherein the molecule is a cytotoxic drug or a pro-drug to be targeted to tumor cells expressing Gb3 ~~receptor~~ receptors.

9. – 24. (Cancelled)

25. (New): A universal polypeptidic carrier for targeting directly or indirectly a molecule to Gb3 receptor expressing cells and having the following formula STxB-Z(n)-Cys, wherein :

STxB is the Shiga Toxin B subunit or a functional equivalent thereof,

Z is an amino acid devoid of a sulfhydryl group, n being 0, 1 or a polypeptide,

Cys is the amino acid Cysteine, wherein said molecule is selected from the group of proteins, glycoproteins, nucleic acids encoding proteins and a combination thereof.

26. (New): A universal polypeptidic carrier for targeting directly or indirectly a molecule to Gb3 receptor expressing cells and having the following formula STxB-Z(n)-Cys, wherein :

STxB is the Shiga Toxin B subunit,

Z is an amino acid devoid of a sulfhydryl group, n being 0, 1 or a polypeptide,

Cys is the amino acid Cysteine, wherein said molecule is selected from the group of proteins, glycoproteins, nucleic acids encoding proteins and a combination thereof.